Datasheet for ABIN673011

# anti-Fascin antibody (pSer39)

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | Fascin (FSCN1) |
| Binding Specificity: | pSer39 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Fascin antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

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| Immunogen: | KLH conjugated synthetic phosphopeptide derived from human FSCN1 around the phosphorylation site of Ser39 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse |
| Predicted Reactivity: | Rat,Dog,Pig |
| Purification: | Purified by Protein A. |

## Target Details

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| Target: | Fascin (FSCN1) |
| Alternative Name: | FSCN1 (FSCN1 Products) |
| Background: | Synonyms: HSN, SNL, p55, FAN1, Fascin, 55 kDa actin-bundling protein, Singed-like protein, FSCN1<br>Background: Organizes filamentous actin into bundles with a minimum of 4.1:1 actin/fascin ratio. Plays a role in the organization of actin filament bundles and the formation of microspikes, membrane ruffles, and stress fibers. Important for the formation of a diverse set of cell protrusions, such as filopodia, and for cell motility and migration. |
| Gene ID: | 6624 |
| UniProt: | Q16658 |

## Application Details

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|---|---|
| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>FCM 1:20-100<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |

## Handling

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|---|---|
| Expiry Date: | 12 months |

## Publications

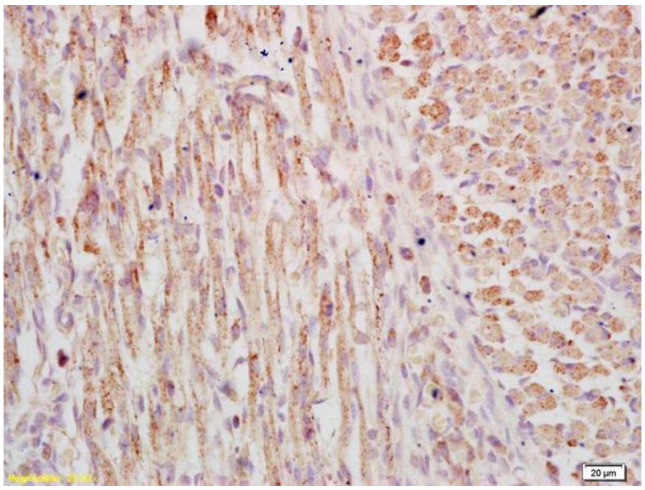
Product cited in:

Zhang, Zhao, Zhang, Hao, Yu, Min, Li, Ma, Chen, Yi, Tang, Meng, Liu, Wang, Shen, Zhang: " Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." in: **Chemosphere**, Vol. 194, pp. 147-157, (2018) (PubMed).

Król, Mucha, Majchrzak, Homa, Bulkowska, Majewska, Gajewska, Pietrzak, Perszko, Romanowska, Paw?owski, Manuali, Hellmen, Motyl: "Macrophages mediate a switch between canonical and non-canonical Wnt pathways in canine mammary tumors." in: **PLoS ONE**, Vol. 9, Issue 1, pp. e83995, (2014) (PubMed).

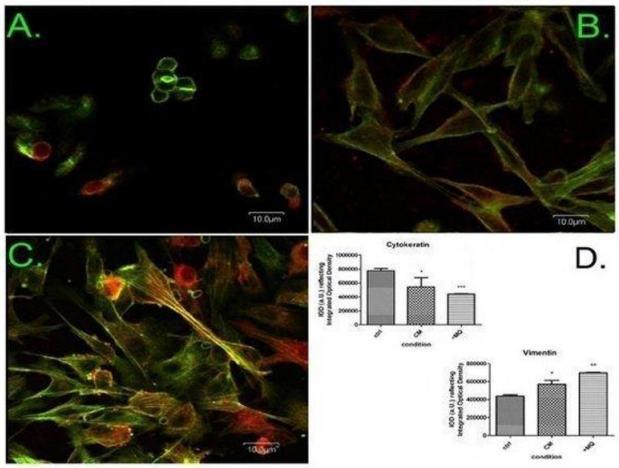
Majchrzak, Lo Re, Gajewska, Bulkowska, Homa, Paw?owski, Motyl, Murphy, Król: "Migrastatin analogues inhibit canine mammary cancer cell migration and invasion." in: **PLoS ONE**, Vol. 8, Issue 10, pp. e76789, (2013) (PubMed).

## Images



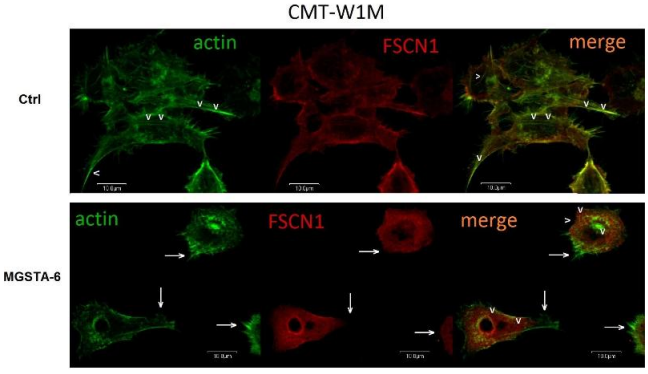

**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded mouse embryo labeled with Anti-phospho-FSCN1(Ser39) Polyclonal Antibody, Unconjugated (ABIN673011) at 1:200 followed by conjugation to the secondary antibody and DAB staining




## Immunofluorescence (Cultured Cells)

**Image 2.** Image kindly submitted by Dr. Magdalena Krol. Control canine mammary tumor cells, tumor cells cultured in macrophage-conditioned medium, and co-cultured with macrophages were seeded on Lab-Tek slides (previously coated with Matrigel) for 72 h. The cells were then washed two times in warm PBS and were fixed in 3.7% paraformaldehyde for 20 min at room temperature. Subsequently, the cells were permeabilized with 0.5% Triton X-100 diluted in PBS for 10 min at room temperature, washed three times in PBS, and incubated with rabbit anti-phospho-fascin (FSCN1, Ser39) antibodies diluted 1:100 in PBS (Bioss). After overnight incubation with primary antibodies at 4uC, the cells were washed three times in PBS, incubated with secondary Alexa Fluor 568 goat anti-rabbit antibodies (diluted 1:500 in PBS) for 1 h in the dark at room temperature. Coverslips were then mounted on microscope slides using mounting medium (Sigma Aldrich). Cell imaging was performed using a confocal laser scanning microscope FV-500 system (Olympus Optical Co) with a 488-nm argon laser and 505- to 525-nm filter for FITC staining and with a 543-nm He-Ne laser and a 610-nm filter for Alexa Fluor 568 staining. Images were gathered separately for each fluorescence channel, and the cells were examined using the Fluoview program (Olympus Optical Co.)




## Immunofluorescence (Cultured Cells)

**Image 3.** Representative confocal microscopy images of cytoskeletal protein F-actin and fascin 1 in CMT-W1M canine carcinoma cell line.The images demonstrated actin fibril (green) a fascin1 (red) localization in control conditions (upper row) and after MGSTA-6 treatment (lower row). In control condition multiple filopodia protrusion was observed as well as stress fibers (arrowheads in upper row). Moreover expression of fascin1 strongly co-localized with F-

actin (merge image in upper row). In contrast, administration of MGSTA-6 caused potent inhibition of filopodia and stress fibers formation. Furthermore, the lack of expression of fascin1 in branching structures and filopodia protrusion was also shown after MGST-6 treatment (arrows in lower row). In addition, more free-fascin1 protein (not associated with F-actin) was observed in the central area of cells (arrowheads in lower row). Cells were visualized using the confocal laser scanning microscope FV-500 system at the magnification of x60, zoom 2.0 (Olympus Optical Co, Hamburg, Germany). - figure provided by CiteAb. Source: PMID24116159